## XXX.—Descriptions of Sir new Freshwater Fishes from Mixico and Cintral America. By C. 'Tate Regan, B.A.

## Pimelodus Boucardi.

Depth of body 63 in the length, length of head 4 . Brealth of head $1 \frac{1}{3}$ in its length, length of snout $2 \frac{3}{4}$, diameter of eye 6 , interorbital width 3. Lower jaw nearly as long as the upper: maxillary barbel extending to origin of adipose fin. Ilead covered with smooth skin; nccipital process rather strong, extending $\frac{1}{2}$ the distance from its base to the origin of dorsal. Dorsal 16 , the spine slender, the fin rounded, as high as long. Adlipose fin $\frac{1}{3}$ the length of the fish. Anal 14. Pectoral spine with serrated imer edge, about $\frac{3}{5}$ the length of the fin and $\frac{1}{3}$ the length of head; humeral process long, nearly reaching the middle of the fin; ventrals originating nearly below the last dorsal ray, extending more than $\frac{2}{3}$ of the distance from their base to the origin of anal. Caudal deeply notched, the lobes rounded, the lower the larger. Least depth of caudal peduncle $\frac{1}{3}$ the length of head. Blackish.

Hub. Yucatan (Boucard).
A single specimen, 190 mm . in total length.

## Pimelodus brackycephalus.

Depth of Lody $5 \frac{1}{2}$ to $6 \frac{1}{2}$ in the length, length of head $5 \frac{1}{2}$ to $5 \frac{1}{5}$. Breadth of head $1 \frac{1}{3}$ in its length, length of smout $2 \frac{2}{3}$ to $\ddot{3}$, diameter of eye 5 to 6 , interorbital width 3 to $3 \frac{1}{2}$. lower jaw a little shorter than the upper; maxillary barbel extending to the basal part of pectoral. Head covered with smoth skin; occipital process short. Dorsal I G, the spine slender, the fin rounded, as high as or higher than long. Length of adipore fin $3 \frac{1}{4}$ to $: 3 \frac{3}{4}$ in the length of the fish. Anal 12-13. Pectoral spine with serrated imer edge, about $\frac{3}{3}$ the length of the fin and $\frac{2}{5}$ the length of head; humeral proess short; ventral; originating behind the dorsal, extending $\frac{1}{2}$ to $\frac{3}{5}$ the di-tance from their base to the origin of anal. (Caudal moderately notched, the lower lobe rounded and rather shorter than the upper. Least depth of caudal peduncle $\frac{2}{3}$ or more than ${ }_{3}^{2}$ the length of head. Brownish.

Hal. Guatenala, Rio Nacasil (Salcin).
Six specimens, measuring up to 190 mm . in total length.

## Pimelodus Rogersi.

Depth of body 6 in the length, length of heal 5 . Head 13, as long as broad. Dianeter of eye 6 in the length of head, interorbital width 3, length of snout 3. Head covered with smooth skin; fontanel not extending beyond the level of posterior margin of eye; occipital process short. Maxillary barbel extending to middle of peetoral fin. Dorsal I 6, the spine slender, the fin rom ded, higher than long. Adipose fin as long as or a little longer than its distance from the dursal, about $\frac{0}{5}$ the length of the fish. Anal 1:2-14. Pectoral spine nearly $\frac{2}{3}$ the length of the fin and nearly $\frac{2}{5}$ the length of head, its immer edge with a series of rather small denticulations. Ventrals originating behind the last dorsal ray, extending $\frac{1}{2}$ the distance from their base to the origin of anal. Caudal with a shallow notch. Least depth of caudal peduncle ${ }_{5}^{3}$ the length of head. Brownish.

Hab. Costa Rica, Irazu (H. Rogers).
Four specimens, measuring up to 130 mm . in total length.
Allied to P. Salvini, Gthr., which has a longer adipose fin ( $\frac{2}{7}$ the length of the fish), a shorter pectoral spine (less than $\frac{1}{3}$ the length of head), a shorter anal fin with 11 rays, and the caudal more deeply notehed.

## Gambusia annectens.

Depth of body 3 to $3!\frac{1}{2}$ in the length, length of head $3 \frac{1}{2}$ to $3_{4}^{3}$. Snont as long as or shorter than eye, the diameter of which is 3 to $3 \frac{2}{3}$ in the length of head ; interorbital width equal to the distance from middle or posterior part of eye to free edge of operculum. 28 to 31 seales in a longitudinal series. Dorsal 10-12; origin equidistant from tip of shout and middle or posterior part of caudal ; free edge of the tin convex. Anal 9-10, pointed, originating a little in advance of the dorsal. Pectoral about $\frac{3}{4}$ the length of head. Caudal rounded or subtruncate. Least depth of caudal pedumele about $\frac{2}{3}$ the length of head. Scales with dark edges, torming series of spots on the lower part of the side; often a series of short dark vertical bars along the middle of the side; a series of dark spots on the lower part of the dorsal fin.

Hab. Custa Rica, Carrullo and Juan Veñas (Underwood) ; I lazil (koyers).

Numerous specimens, measuring up to 70 mm . in total length.
'This species is very close to G. episcopi, Steind., from Yanama, which has only 8 or 9 dorsal rays and also differs in having a blackish spot on the anal fin. It is also close to
Ci. terrabensis, Regan, and ir. Jonesii, Giunther *, ant with them forms a serte's from G. episcopi to G. (Psendoxiphofherus) bimucnlita, Meck., so that the genus Pseudociphof horus can no longer be matmained.

## Gamlusic terrabensis.

Depth of body $3 \frac{1}{4}$ to $3 \frac{1}{2}$ in the length, length of head $3 \frac{1}{2}$ to $3 \frac{5}{5}$. Snout shorter than eye, the diameter of which is 3 to $3 \frac{1}{3}$ in the length of head; interurbital width equal to the distance from posterior margin of pupil to free edge of operculum. 29 to 31 sales in a longitudinal series. Dural 12-14; origin 'quidistant from tip) of snout and base of caudal or a little nearer the latter. Anal 9-10; origin below or a little in adrance of the middle of dorsal. Pectoral wearly ${ }_{4}^{3}$ the lenghth of head. Caudal subtrmente. Least depth of caudal peduncle nearly $\frac{\partial}{3}$ the lengeth of head. Scales of the upper part of the body with dark edges; an interrupted dark lateral stripe; dorsal fin with a basal series of vertically expanded blackish spots and with a second series of smaller spots; anal dark at the base and also distally; posterior part of caudal dusky.

Hal. Costa Rica, Rio Grande de T'érraba, Pacific Slope (H. Pittier).

Six specimens, measuring up to 48 mm . in total length.

## Sicydiun Pittieri.

Depth of body 6 in the length, length of head $5 \frac{1}{3}$ to $5 \frac{2}{3}$. Diameter of eye $5 \frac{1}{2}$ to 6 in the length of head, interorbital wicth 4 to $4 \frac{1}{2}$. Snout obtuse; month subterminal, with horizontal defi, extending to below the middle of eye; upper tecth bimspid; teeth of the outer series in the lower jaw somerimes concealed. Occipital region covered with small scales ; i.5 to 80 scales in a longitudinal series; abdomen with a median maked area or strip. Dorsal VI, 110 ; rays of first doral (in the males) produced into filaments, the longest, when laid back, nealy reaching the end of the base of second dursal ; longest rays of second dursal a little longer than the head. Anal I 10; origin equidistant from eye and bare of caudal. Pectomal longer than the head, twice as long as the ventrals. A dark inot on cach scale ; dorsal fins with dark vermiculations; anal with a dank edge.

Hab. Costa Rica, Rio Girande de Térraba (11. Pittier).
Two specimens (makis), 120 and 135 mm . in total length.
'This species is nearest to S'. Sulcini, Grant, from Pamana and W estern Ecuarlor.

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[^0]:    * Mollienisia Jonesii, (ithr. = I'sondoxiphuphorus panciradiatus, Kegan.

